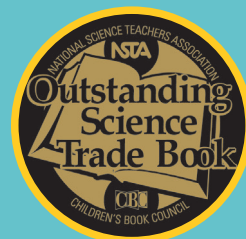




# OUTSTANDING SCIENCE TRADE BOOKS FOR STUDENTS K–12: 2018

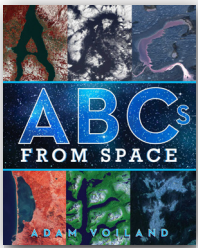
BOOKS PUBLISHED IN 2017



## WINNING TITLES

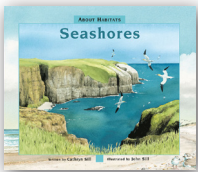
We invite you to explore this year's list of Outstanding Science Trade Books, which builds upon our 45-year history. In the award-winning books below, you'll find not only traditional science content but also elements of engineering and design. We hope you'll enjoy exploring science through this collection of outstanding children's books.

For further information, please visit [WWW.NSTA.ORG/PUBLICATIONS/OSTB/](http://WWW.NSTA.ORG/PUBLICATIONS/OSTB/) and [WWW.NSTA.ORG/RECOMMENDS/](http://WWW.NSTA.ORG/RECOMMENDS/)



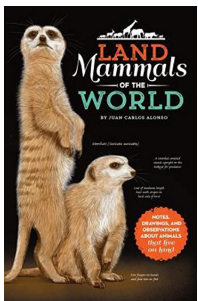
ABCs from Space  
*Adam Voiland*

Simon & Schuster/Paula Wiseman Books  
Stunning satellite photographs of the Earth from space, each representing a different letter of the alphabet, with descriptions at the back of the book providing additional information.



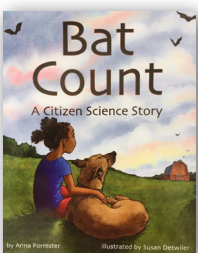
About Habitats: Seashores  
*Cathryn Sill*

Illustrated by *John Sill*  
Peachtree Publishers  
Illustrations are richly enhanced with a plethora of visual information for the young reader to quickly grasp the beautiful and diverse landscapes, animals, and plant life that are the essence of viable and productive seashores



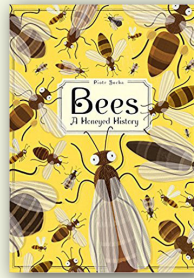
Animal Journal  
*Juan Carlos Alonso*

Quarto/Walter Foster Jr.  
Fantastically illustrated, with specific animal statistics and factual information, showcasing the magnificent diversity of terrestrial animals.



Bat Count  
*Anna Forrester*  
Illustrated by *Susan Detwiler*

Arbordale Publishing  
A beautifully told story about two families: Jojo's family and the bat family. Take your reader through this journey to understand the importance of bats and their recovery in nature.



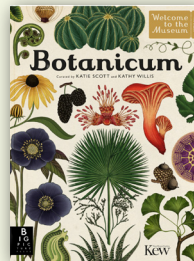
Bees  
*Piotr Socha*

Abrams Books for Young Readers  
A rich, fun, and comprehensive history of the bee! From Cleopatra to pollination. From hives to world explorers.



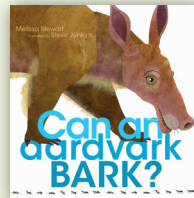
Birds Make Nests  
*Michael Garland*

Holiday House  
In this beautifully illustrated book, explore the wide variety of nests made by birds.



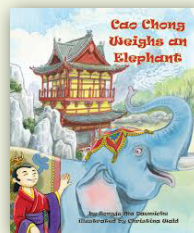
Botanicum  
*Kathy Willis*  
Illustrated by *Katie Scott*

Candlewick Press/Big Picture Press  
Stunning artwork gives the impression of being in an art gallery as the reader learns details of both exotic and common plants in this oversize picture book.



Can an Aardvark Bark?  
*Melissa Stewart*

Illustrated by *Steve Jenkins*  
Simon & Schuster/Beach Lane Books  
Explore vocalizations that animals use to communicate in this question-and-answer format book with engaging, detailed collage illustrations by Steve Jenkins.



Cao Chong Weighs an Elephant  
*Songju Ma Daemicke*  
Illustrated by *Christina Wald*

Arbordale Publishing  
Six-year old Cao Chong faces the problem of weighing an elephant; he comes up with a creative solution using buoyancy in this beautifully illustrated picture book.



Caroline's Comets  
*Emily Arnold McCully*

Holiday House  
This book is filled with beautiful illustrations and narrates the inspirational story of Caroline Herschel. She overcame struggles to become the first woman to discover a comet and first-ever woman to get paid for her scientific research.

# OUTSTANDING SCIENCE TRADE BOOKS



## Catching Air *Sneed B. Collard III*

Tilbury House Publishers

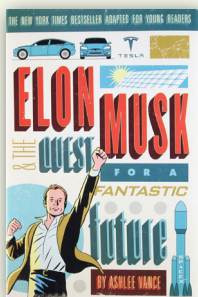
Book filled with absolutely stunning photographs accompanied by equally captivating information about animals around the globe that glide long distances through air.



## Chasing Space, Young Readers' Edition *Leland Melvin*

HarperCollins/Amistad

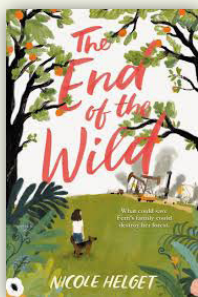
A memoir of Leland Melvin, former NFL wide receiver turned astronaut, who shares his personal journey and how he overcame adversity, developed a strong work ethic, and seized opportunities to reach his goals.



## Elon Musk and the Quest for a Fantastic Future, Young Readers' Edition *Ashlee Vance*

HarperCollins

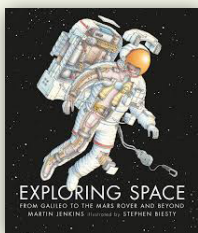
This adaptation gives young readers access to Musk's story from his childhood in South Africa to becoming one of the world's most innovative business leaders.



## The End of the Wild *Nicole Helget*

Little, Brown Books Young Readers

This thought-provoking story about an 11-year-old girl, her family, and her community embeds issues related to fracking, the environment, and poverty.

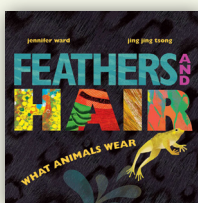


## Exploring Space *Martin Jenkins*

Illustrated by *Stephen Biesty*

Candlewick Press

Beautiful illustrations and helpful diagrams reflect humankind's love affair with the night sky, space, and the quest to explore.



## Feathers and Hair, What Animals Wear *Jennifer Ward*

Illustrated by *Jing Jing Tsong*

Simon & Schuster/Beach Lane Books

Rhyming text woven with vibrant, colorful illustrations about different kinds of animal coverings, with more-extensive information about the animals featured in the end pages.

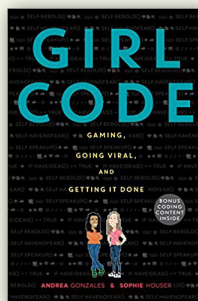


## Finding Wonders *Jeannine Atkins*

Simon & Schuster/

Atheneum Books for Young Readers

This unique novel in verse shares compelling biographies of Maria Merian and her metamorphosis discoveries, Mary Anning and her fossil discoveries, as well as Maria Mitchell and her comet discoveries.

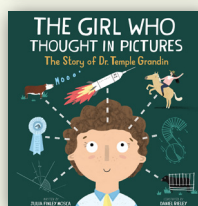


## Girl Code

*Andrea Gonzalez and Sophie Houser*

HarperCollins

The inspiring true story of two high school girls who met at a summer coding camp for girls, created a Tampon Run video game that went viral, and got an inside look at the tech industry. An excellent example of girls finding their voice and using technology to address social issues.



## The Girl Who Thought in Pictures

*Julia Finley Mosca*

Illustrated by *Daniel Rieley*

The Innovation Press

A compelling story about the way Dr. Temple Grandin used her visual thinking to invent groundbreaking improvements in farming, especially animal care.

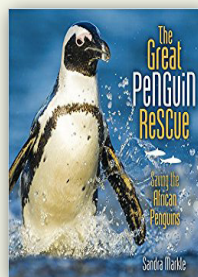


## Grand Canyon

*Jason Chin*

Macmillan Children's Publishing Group/Roaring Brook Press

Hike with a dad and daughter to the bottom of the canyon while they explore the rock layers, the history that created them, and the animals that call this place home.



## Great Penguin Rescue

*Sandra Markle*

Lerner/Millbrook Press

Examines the history and causes of the declining African Penguin population—and shares the hope to be found in the innovative conservation methods being used to try to restore their numbers.



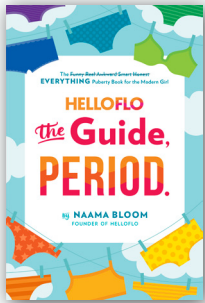
## Hawk Mother

*Kara Hagedorn*

Web of Life Children's Books

Sunshine, an injured red-tailed hawk, will never have babies of her own. Beautiful photographs delight the reader as Sunshine's story of (nevertheless) becoming a mother of two chicks unfolds.

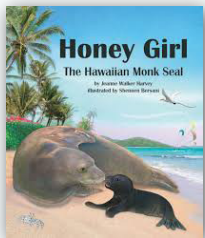




**Helloflo: The Guide, Period**  
*Naama Bloom*

Penguin Young Readers/Dutton Books for Young Readers

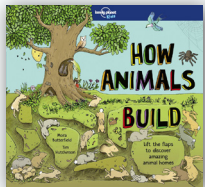
A fun, approachable guide through puberty with real-life facts about a young woman's changing body.



**Honey Girl**  
*Jeanne Walker Harvey*  
Illustrated by *Shennen Bersani*

Arbordale Publishing

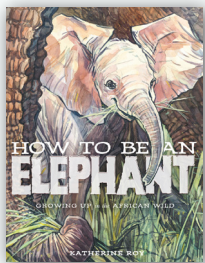
This touching true story shares how a well-known seal mom, who was injured by a fishhook, was saved by local scientists and veterinarian, and released back on the beach--to the delight of the local people.



**How Animals Build**  
*Moira Butterfield*  
Illustrated by *Tim Hutchinson*

Lonely Planet

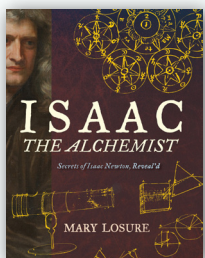
Fold out pages and lift flaps to discover the extraordinary diversity of animal homes and how they are built.



**How to Be an Elephant**  
*Katherine Roy*

Macmillan Children's Publishing Group/David Macaulay Studio

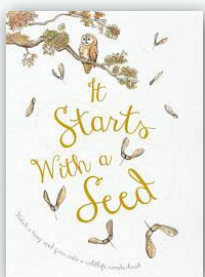
Follow a baby elephant and its herd to discover, through beautiful illustrations and words, how its unique body features are perfectly designed for life in the savanna.



**Isaac the Alchemist**  
*Mary Losure*

Candlewick Press

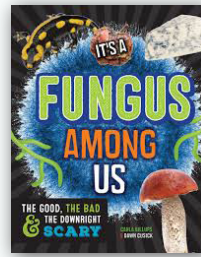
The story of Isaac Newton's childhood and how an interest in alchemy and magic led him to become an accomplished mathematician, the father of physics, and an inspiring scientific revolutionary.



**It Starts With a Seed**  
*Laura Knowles*  
Illustrated by *Jennie Webber*

Quarto/Words & Pictures

The life cycle of a tree told through poetic text with beautiful illustrations and supplemented by an informative endnote about the sycamore tree.



**It's a Fungus Among Us**  
*Carla Billups and Dawn Cusick*

Quarto/MoonDance Press

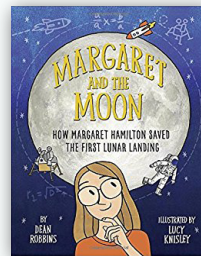
Everything one wants to know about fungi, such as their influence upon the making of foodstuffs (bread), medicines, and human diseases (ringworm), as well as providing habitats for other living organisms. While some fungi are good to eat, there are also many that are poisonous to humans.



**Living Things and Nonliving Things**  
*Kevin Kurtz*

Arbordale Publishing

Provides a simple and accurate comparison of living and nonliving things, accompanied by beautiful photographs and questions that promote critical thinking.

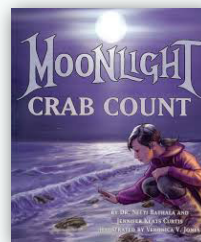


**Margaret and the Moon**  
*Dean Robbins*

Illustrated by *Lucy Knisley*

Random House/Alfred A. Knopf Books for Young Readers

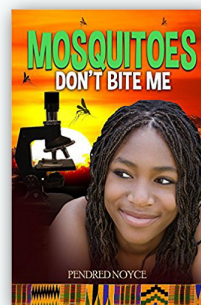
The story of Margaret Hamilton, who was instrumental in writing the computer programs that allowed for one of the greatest technological events in human history to occur--the successful flights of the Apollo missions.



**Moonlight Crab Count**  
*Dr. Neeti Bathala and Jennifer Keats Curtis*  
Illustrated by *Veronica V. Jones*

Arbordale Publishing

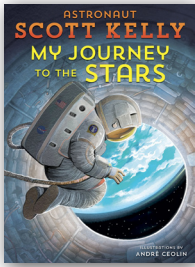
Join Leena, her mom, and their dog Bobie as they spend their summer as citizen scientists helping in the effort to conserve horseshoe crabs.



**Mosquitoes Don't Bite Me**  
*Pendred Noyce*

Tumblehome Learning

This realistic science fiction tale exposes young readers to conducting scientific research while thinking about social issues, such as health disparities and subtle racism.



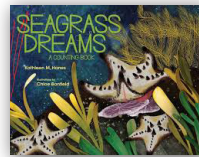
## My Journey to the Stars

*Scott Kelly*

Illustrated by *André Ceolin*

Random House/Crown Books for Young Readers

This memoir is a story of an average boy who was inspired by a book about test pilots and astronauts to dream and set goals for his future. Scott Kelly ultimately went into space!



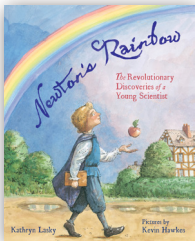
## Seagrass Dreams

*Kathleen Hanes*

Illustrated by *Chloe Bonfield*

Quarto/Seagrass Press

Beautifully illustrated counting book introducing readers to life in the world's seagrass environments. More detail about the animals and a map of their locations around the world are included in the end pages.



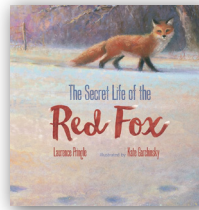
## Newton's Rainbow

*Kathryn Lasky*

Illustrated by *Kevin Hawkes*

Macmillan Children's Publishing Group/Farrar, Straus and Giroux (BYR).

This biographical story of Isaac Newton traces his curiosity and growing love of science as a child through school experiences that shaped the scholar he became.



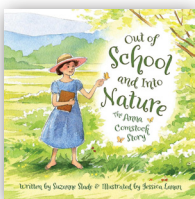
## The Secret Life of the Red Fox

*Laurence Pringle*

Illustrated by *Kate Garchinsky*

Boyd's Mills Press

Travel alongside the red fox as this book takes the reader through its the amazing life, season by season. Fun read and great informational text.



## Out of School and Into Nature

*Suzanne Slade*

Illustrated by *Jessica Lanan*

Sleeping Bear Press

This picture book is a biography of Anna Comstock, an artist and naturalist who chose to pursue a career in science despite what was considered the social norm for women during her era.



## The Secret Project

*Jonah Winter*

Illustrated by *Jeanette Winter*

Simon & Schuster/Beach Lane Books

Through simple text structure and captivating illustrations, this book tackles the controversial, sensitive, and gloomy topic of the Manhattan Project. It provides a glimpse of the secret nuclear laboratory at Los Alamos as well as the creation and testing of the first nuclear bomb.



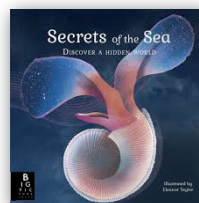
## Over and Under the Pond

*Kate Messner*

Illustrated by *Christopher Silas Neal*

Chronicle Books

Discover the secrets of a mountain pond's ecosystem from over and under the pond.



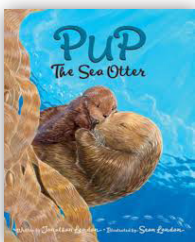
## Secrets of the Sea

*Kate Baker*

Illustrated by *Eleanor Taylor*

Candlewick Press/Big Picture Press

Beautifully illustrated with colorful drawings of sea life not often observed by humankind--such as swordtail squid, sea butterfly, or the purple sea urchin. Great book for any home or school library.



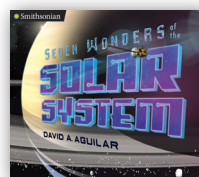
## Pup the Sea Otter

*Jonathan London*

Illustrated by *Sean London*

Graphic Arts Books

An enchanting story with fetching illustrations portrays the life of a young otter as he grows from a baby to a bachelor.



## Seven Wonders of the

Solar System

*David A. Aguilar*

Penguin Young Readers/Viking Books for Young Readers

Explore the seven wonders of the Solar System from our Earth to Pluto and Charon, nestled at the edge of the Kuiper Belt. Beautiful illustrations and captivating text transport the reader through space and time.



## Ribbit

*Jorey Hurley*

Simon & Schuster/Paula Wiseman Books

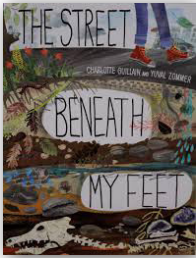
Do not let the simplicity of this book fool you--the life cycle of the frog is beautifully illustrated. Great for young readers as well as budding biologists.





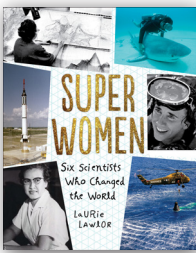
**Shark Lady**  
*Jess Keating*  
 Illustrated by *Marta Álvarez Miguéns*  
 Sourcebooks/Jabberwocky

As this young girl's passion for sharks grew as she got older, she broke the mold for women in science to become a renowned shark scientist who helped change public opinion on this misunderstood animal.



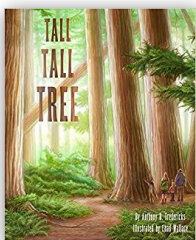
**The Street Beneath My Feet**  
*Charlotte Guillain*  
 Illustrated by *Yuval Zommer*  
 Quarto/Words & Pictures

Explore the world that exists beneath our feet, all the way to the inner core of Earth, as this book literally unfolds to 8 feet (2.4 meters)! Packed as thick as soil, *Street* will capture the imagination of any young scientist.



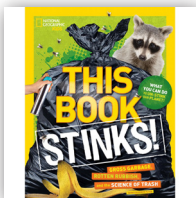
**Super Women**  
*Laurie Lawlor*  
 Holiday House

The inspiring stories of six female scientists who faced discrimination, persevered, and made significant contributions. Specific examples of sexism illuminate historical struggles in important ways.



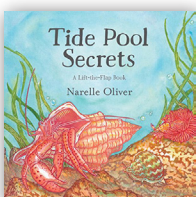
**Tall Tall Tree**  
*Anthony D. Fredericks*  
 Illustrated by *Chad Wallace*  
 Dawn Publications

Explore the wildlife in a redwood tree through counting, rhyme, and some hidden surprises!



**This Book Stinks!**  
*Sarah Wassner Flynn*  
 National Geographic Kids

Through bright photographs and simple text structure, this book takes a deep look into the hefty problem of trash, offering fun facts and creative solutions for its management.



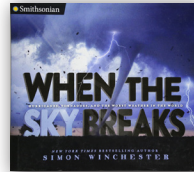
**Tide Pool Secrets**  
*Narelle Oliver*  
 Candlewick Press

Lift flaps to reveal the hidden sea life in tide pools—and learn how animals there keep themselves moist when the water recedes, leaving them exposed.



**When Planet Earth Was New**  
*James Gladstone*  
 Illustrated by *Katherine Diemert*  
 Owlkids Books

Simple text paired with colorful illustrations that briefly tell the nearly five-billion-year history of our Earth.



**When The Sky Breaks**  
*Simon Winchester*  
 Penguin Young Readers/Viking Books for Young Readers

A well-written and -researched book for young readers concerning current dangerous weather phenomena that affect us daily—such as hurricanes, tornadoes, and climate change.



**When the Sun Goes Dark**  
*Andrew Fraknoi and Dennis Schatz*  
 Illustrated by *Eric Freeberg*  
 NSTA Kids

Two curious children create models of solar eclipses in their living room with their astronomer grandparents, later going outside to learn how to safely view them. Readers could easily reproduce their hands-on experiments.

